

19980218.ba v01_n928.bam.980218 v01_n929.bam.980218

>From ???@??? Thu Feb 19 03:24:51 1998
Message-Id: <199802181402.IAA22727@sco.theporch.com>
Date: Wed, 18 Feb 1998 08:02:42 CST
Subject: BOATANCHORS digest 1928

BOATANCHORS Digest 1928

Topics covered in this issue include:

- 1) Modern Marvels
by "Robert Nickels" <ranickel@mwci.net>
- 2) Exact 501A VCF/Sweep generator Info?
by Bob Login <jlogin@gville.mindspring.com>
- 3) My new website has cool BAs
by "Steve Hill" <SHILL@onaustralia.com.au>
- 4) Painting an SX-100
by DCrespy@aol.com
- 5) Re: Russian Nationals?
by "Ragnar Otterstad" <otterstad@inet.uni2.dk>
- 6) Re: T-195B parts needed, etc.
by "Mark J. Blair" <mblair@groomsh.irv.ca.us>
- 7) Hot xformers
by Ralph Parker <rparker@istar.ca>
- 8) WTB: HP-200CD manual
by "JOSE V.GAVILA (EB5AGV/EC5AAU)" <eb5agv@ctv.es>
- 9) FS Invader 2000
by Larry Boyle <lbkd6wi@jps.net>
- 10) Re: ODD 1232 TUBE
by eaj <eaj@hiwaay.net>
- 11) FT: Hickok Scope
by Brian.Harris@sv.sc.philips.com (Brian Harris)
- 12) Re: Tektronix Scope
by w7ni@teleport.com (Stan Griffiths)
- 13) Re: Tek 545A high voltage problem?
by w7ni@teleport.com (Stan Griffiths)
- 14) ODD 1232 TUBE
by arc5@ix.netcom.com
- 15) Oddball Collins
by Tom Clarke <fclarke@erols.com>
- 16) Tube data needed
by gpewitt@execpc.com
- 17) RE: Tek 545A High Voltage problem solved!!
by Allen Tucholski <allent@en.com>
- 18) In re The Age Moderne
by "Roberta J. Barmore" <rbarmore@indy.net>
- 19) Re: Si diodes, 5U4s, and filter cap ratings

- by "Roberta J. Barmore" <rbarmore@indy.net>
- 20) Re: Si diodes, 5U4s, and filter cap ratings
by "Arden Allen" <aallen@sirius.com>
- 21) Re: Si diodes, 5U4s, and filter cap ratings
by "Arden Allen" <aallen@sirius.com>
- 22) Re: Russian Nationals
by Charles Kadesch <chas@digizen.net>
- 23) HELP
by jackiv@juno.com (John M Iverson)
- 24) Fwd: [R-390] New 600/8 Ohm Audio Transformers will be available
by DCrespy@aol.com
- 25) WTB 7360's
by "Edwin G. Buttell" <edd.b@snet.net>
- 26) RE: Hot Xformers
by w2ec@vnet.IBM.COM

Date: Tue, 17 Feb 1998 19:51:00 -0600
From: "Robert Nickels" <ranickel@mwci.net>
To: "Old Tube Radios" <boatanchors@theporch.com>
Subject: Modern Marvels
Message-ID: <00b901bd3c10\$12d78760\$528a3ece@default>

Hi All,

Hope some of you caught the "Radio" and "Radar" specials on The History Channel's "Modern Marvels" series this week. You can search their web page for repeats at
<http://www.historychannel.com/listings/>
Very interesting profiles, but I guess when they do a special on "Boatanchors" we will know we've entered the history books!

73, Bob W9RAN

Date: Tue, 17 Feb 1998 20:38:51 -0500
From: Bob Login <jlogin@gville.mindspring.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Exact 501A VCF/Sweep generator Info?
Message-ID: <199802180158.UAA30840@camel7.mindspring.com>

Hi Fellow BAer's-- Bought this at Orlando sans manual/schematic.
Would love to hve the documentation. Can anyone help? Willing to pay for copy or buy original or trade for copy of something from my growing

collection? Let me know--73's Bob, AA8A

Date: Wed, 18 Feb 1998 21:50:49 +1100
From: "Steve Hill" <SHILL@onaustralia.com.au>
To: <boatanchors@sco.theporch.com>
Subject: My new website has cool BAs
Message-ID: <12552264077027@onaustralia.com.au>

Hi gang,

My new website is up and running.
Plenty of radios and other interesting stuff to look at.

Please let me know what you think and how I could improve it.

The address is <http://www.users.bigpond.com/shill>

73s

Steve Hill VK4CZT
<SHILL@onaustralia.com.au>
39 Banbury St.
Carina. 4152.
Brisbane. Australia.

Date: Wed, 18 Feb 1998 06:32:29 EST
From: DCrespy@aol.com
To: boatanchors@sco.theporch.com, hallicrafters@qth.net
Subject: Painting an SX-100
Message-ID: <96bb3702.34eac6cf@aol.com>

Sorry to use the lists for this, but:
I corresponded with someone a few days ago about a method to mask the front panel on this radio to get a 'soft edge' between the panel and sides. I have lost his address and should have cautioned him not to try to spray directly into this area, the overspray will be plenty of paint. (I only hope he hasn't figured this out the hard way.)
Thanks for the space!!

Harry KG5LO
Saline MI

Date: Wed, 18 Feb 1998 09:45:35 +0100
From: "Ragnar Otterstad" <otterstad@inet.uni2.dk>
To: <thompson@mindspring.com>, "Old Tube Radios" <boatanchors@theporch.com>
Subject: Re: Russian Nationals?
Message-ID: <199802180915.KAA27454@inet.uni2.dk>

Try to have a word with Vladimir Dorkin. He used to work for Motorola in the Chicago area, but I hear he had moved to California last year. Have lost his email adress. He left Russia when the wall came down, was a licenced ham during the Sovjet regime and should know a lot about this.

73 Rag OZ8RO

> At 09:50 PM 2/16/98 +0000, Larry Ware wrote:
> >Evening folks; through the kindness of Bill Fizette and Alan Douglas,
> >(both of the A.W.A.) I recently was given photocopies (several hundred!)
> >of photographs from the National Radio Companies marketing dept.
> >archives... :-) I'm still trying to index and sort through a lot of
> >these, but I have a number showing NC-100 variants with Cyrillic
> >(Russian) language markings on the front panels!
> >(Gad-Zookes! Batman, how many of these were made?)
> >I suspect I'm looking at WWII lend-lease program goods...
>
> The Russians got a lot of help from the Allies during WW II. The
receivers
> they got included National as noted, RCA AR-88's, and the BC-312/342/348
> series. Somehow they also got a lot of Super Pros, too but those came
from
> someone in Sweden (just found this in some Hammarlund research). The
> Russians took these designs and started rolling their own, too. UA1DZ
had
> some history on this (Rag,,,sorry I got UA1CK confused here, but it was
> UA1DZ with the info). Unfortunately he is SK (UA1DZ that is). Someone
said
> Leo, UA3CR might have some background, too.
>
> Look in any old QST or CQ at the pics of Russian hams (and many Eastern
> European hams too) and you will see an old national, BC348, or AR-88.
Many
> of the senior hams in Russia credit these old receivers as lifesavers in
> getting ham radio going again after WW II.
>
> I do remember UA1DZ telling me in a QSO about 25 years ago that those old

> receivers were the base for the Russian and Bulgarian electronics industry.
> And they still make tubes in Russia today!
>
> Do they still exist today. The answer is yes. Many of the Technical
> Universities still have old nationals and AR-88's in their labs and one ham
> sent me note that in Ural there is a group of active collectors...BA alive
> and well in Russia???
>
> 73 Dave K4JRB
> thompson@mindspring.com
>

Date: Tue, 17 Feb 1998 23:50:32 -0800
From: "Mark J. Blair" <mblair@gruumsh.irv.ca.us>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: T-195B parts needed, etc.
Message-ID: <199802180750.XAA20605@gruumsh.irv.ca.us>

> I just received my T-195B transmitter from Fair Radio today. Phil said
> it was their last one. It arrived in pretty good shape, but I need a
> few parts for it:
[...]

In case anybody is interested, I've played with my new T-195B since my last posting. Here's a status update:

I tested all of the tubes I could find except the three 4X150D's in my TV-7D, and they all looked good. One 6AK6 lost a pin in the process, but luckily I had a spare. When I apply power to the set, the blowers come on (WHOOOOSH! Sounds like a cross between a shop vac and a jet engine!), the autotune works, and at least one of the solid-state dynamotor replacements come on after an appropriate time delay, judging by the increased current draw. When I try to key the transmitter, the tuning light comes on immediately, there's no indication on the test meter(*) on the PA cathode or grid settings, and no RF power comes out. I didn't try running it out of the case, so I don't know if the roller inductor and tuning caps try to begin a tuning sequence. It may be a while before I can do more detailed troubleshooting, because most of my workshop is still packed up from a recent move, and my soon-to-be electronics workshop is still under construction. Maybe my half-dead transmitter will give me more incentive to finish the construction.... :-)

Well, the radio might be half-dead, but it still makes me giggly to see the knobs start twirling when I change the channel selector!

(*): As I mentioned in my original post, Fair supplied a test meter from the older non-B model. I'm still interested in finding both correct meters for the -B model. Fair said that the -B has a different style meter, but I haven't seen one so I don't know exactly how it's different.

Still looking for all the parts mentioned in my previous posting....

--

Mark J. Blair KE6MYK
e-mail: mblair@gruumsh.irv.ca.us
DO NOT SEND ANY UNSOLICITED COMMERCIAL EMAIL TO THIS SITE

Date: Tue, 17 Feb 1998 22:26:23 -0800
From: Ralph Parker <rparker@istar.ca>
To: boatanchors@theporch.com
Subject: Hot xformers
Message-ID: <3.0.5.16.19980217222623.213f13a2@istar.ca>

Hi gang:
Re: all this discussion about hot transformers.
My Valiant has been on for 2 weeks continuously with the case off.
The pwr xformer is too hot to hold my hand on the laminations.
I thought of bolting a heat sink to it, fins vertical.
I thought of a small fan.
I thought of replacing the 3B28s (I remember the 866 discussions) with solid state rectifiers, thereby saving 25 watts. The 6146s could stand the voltage (currently 625v), which is only ON in the xmit mode. The resistance of the choke would slow the charging of the filter caps.
What are you other Valiant owners doing?
73, Ralph, VE7XF

ps - Years ago, when I "improved" a radio by replacing a rectifier tube with silicon diodes, I'd change a capacitor input filter to a choke input filter to keep the voltage approximately correct.

Date: Wed, 18 Feb 1998 07:35:07 +0100
From: "JOSE V.GAVILA (EB5AGV/EC5AAU)" <eb5agv@ctv.es>
To: "Boatanchors List" <boatanchors@sco.theporch.com>
Cc: BAswaplist@foothill.net

Subject: WTB: HP-200CD manual

Message-ID: <3.0.1.32.19980218073507.006aa858@192.168.0.1>

Hi gang,

Recently I got a nice 1968 vintage HP-200CD 'Wide Range Generator'. It has miniature tubes (two 6AU6 and two 6CW5) and SS rectifiers. I have a partial manual photocopy, so I would like a complete manual for it and any other document regarding this nice generator.

I have for swap some other manuals photocopies: HP-410B, HP-400D/H/L, GR-1650, Heath QF-1, Drake (T-4XB, TR-4, TR-4C, T-4XC, R-4C), Collins (75S-3B, 32S-3, 312B-4, 516F-2), Swan 500Cx and lots more.

Thanks!.

JOSE

73 EB5AGV / EC5AAU
JOSE V. GAVILA
Ausias March 46, 15
46910 Benetusser - VALENCIA
SPAIN

<http://www.geocities.com/SiliconValley/6992/>
e-mail: eb5agv@ctv.es & eb5agv@amsat.org

Date: Tue, 17 Feb 1998 22:09:06 -0800
From: Larry Boyle <lbkd6wi@jps.net>
To: Boatanchors list <boatanchors@theporch.com>
Subject: FS Invader 2000
Message-ID: <34EA7B02.F0838E90@jps.net>

I have a very nice Johnson Viking Invader 2000/Less Power Supply. Clean and all knobs are the original. This unit uses a pair of 6146 to drive a pair of Penta Lab PL175As. 80 through 10 meters. Manual copy. No rust. I will ship this unit in 2 parts. I will remove the tubes and send them in another package. I have no idea what it is worth so I will take the best offer that I get by 2000 Pacific Standard Time on this Friday the 20th of February. Buyer will pay shipping from Placerville Ca. 95667
Thanks Larry B.

Date: Tue, 17 Feb 1998 23:33:50 -0800
From: eaj <eaj@hiwaay.net>
To: arc5@ix.netcom.com
Cc: boatanchors@theporch.com
Subject: Re: ODD 1232 TUBE
Message-ID: <34EA8EDE.286A@hiwaay.net>

from eaj@hiwaay.net

Dear Ken et al: Consulting my trusty 1955 ARRL Hambook, the 1232 comes up as a 7G7 loctal. Now you're REALLY in trouble . . . ! I sold my entire box of 7 & 14 volt loctals (cheap!) at the last Huntsville Hamfest - I keep only the 1v and oddball versions.

Eric

Date: Tue, 17 Feb 1998 20:03:12 -0800
From: Brian.Harris@sv.sc.philips.com (Brian Harris)
To: boatanchors@theporch.com
Subject: FT: Hickok Scope
Message-ID: <0001F203.1914@svlima.sv.sc.philips.com>

For Trade - Hickok scope - It is labeled "DC - Wideband Oscilloscope" and has a maximum sweep frequency of 100KC, which probably means it is good to a few Mcs (covers most IF's and any audio work). It works. The CRT is fairly bright and has no visible burns. The switches and pots need a dose of DeOxIt. It weighs only 15 pounds and measures 9.5"w x 18.5"d x 13.5"h.

I am looking for the following:

tubes - 810, 812, 805, 3D23, 2A3, solid-state 866 (1N2637?)

ARRL handbooks - pre-war handbooks except 3rd, 5th and 1936 editions

73,

Brian Harris WA5UEK 'The Cosmophone Collector'
3521 Teakwood Lane, Plano, Texas 75075
ARRL Life Member, AMI #746, 10-10 #7280

Wants: Collins 30K, National NTE-B exciter and 600 Watt RF deck

Date: Tue, 17 Feb 1998 21:00:39 -0800 (PST)
From: w7ni@teleport.com (Stan Griffiths)
To: wpul11130@concentric.net
Cc: boatanchors@theporch.com
Subject: Re: Tektronix Scope
Message-ID: <199802180500.VAA09019@smtp3.teleport.com>

>Greetings all: I picked up a Tektronix Scope Type 317 at the Orlando
>Hamfest Saturday and in need of a manual, service and operation. If
>anyone has one to seel please let me know. Many thanks and 73's
>Lloyd

Hi Lloyd,

You can get excellent copies of Tektronix manuals from the following:

Deane Kidd, W7TYR
27270 S.W. Ladd Hill Road
Sherwood, OR 97140

Phone: (503) 625-7363 [after 9:00 AM Pacific Time, please]

Deane does not have email or a FAX machine.

Stan w7ni@teleport.com

Date: Tue, 17 Feb 1998 21:01:30 -0800 (PST)
From: w7ni@teleport.com (Stan Griffiths)
To: allent@en.com
Cc: boatanchors@theporch.com
Subject: Re: Tek 545A high voltage problem?
Message-ID: <199802180501.VAA09245@smtp3.teleport.com>

>Picked up a pretty nice Tek 545A. I checked it out, and found the trace was
dim.

>Checked all the low voltages, and they are right on.

>

>+500 OK

>+350 OK

>+225 OK

>+100 OK

>-150 OK

>

>Here is the problem. At the high voltage test point I should see -1350 volts.
>I am only getting 750 -800 volts. I tried to adjust R840 (H.V. adjust) and
>it has no response.
>The pot itself is good (2 meg Ohm's)
>
>I checked the voltage as per the diagram.
>
>V814, 12AU7 (tested tube and its good)
>pin 7 and 1 should be -4 volts, I am getting -134
>pin 8 screen of 6AU5 should be -85 i am getting +305 volts
>
>
>
>Next I had some new 5642's, so I changed V862, V822, V832, V842.
>The trace is a little brighter, but still no response from the H.V. adjust pot.
>
>I also changed C808, C806, C801, still no luck.
>
>I checked the 6AU5 and it tests good.
>When the scope is turned on it makes a snap/arc sound after the time delay
>kicks in.
>
>Any Idea's?

Yes, I have a few ideas. Something is loading down your high voltage. It could be a leaky cap that you still have not changed. It could be the CRT itself. You can check that pretty easily by unplugging the CRT socket from the CRT and see if the high voltage goes up to -1350 at the test point. It could be the power transformer with leakage from the CRT filament winding to ground. You can check that by unsoldering both CRT filament wires from their terminals on the power transformer and see if the -1350 returns to normal.

Other than that, I have written a pretty good diagnostic procedure for the 545A HV which I published in my book on selecting and restoring a classic scope. I still have a few copies left for \$19.95 postage paid. Let me know if you want one.

Stan w7ni@teleport.com

Date: Tue, 17 Feb 1998 22:41:03 -0600 (CST)
From: arc5@ix.netcom.com
To: baswaplist@foothill.net
Subject: ODD 1232 TUBE
Message-ID: <1998217224031341@>

I'm rebuilding a Zenith 8S531. It uses a strange RF tube-
something called a 1232. Anyone ever heard of this thing?
Anyone have one around?
73 DE Dave AB5S
arc5@ix.netcom.com

Date: Tue, 17 Feb 1998 13:55:44 -0500
From: Tom Clarke <fclarke@erols.com>
To: boatanchors@theporch.com
Subject: Oddball Collins
Message-ID: <34E9DD30.38E@erols.com>

It is an AM/CW HF aero transceiver. About 150 watts or so. Loads
of crystals. It was the forerunner to the 618T (ARC-94, ARC-102)
series of HF SSB Aero transceivers. These were widely used (and still
are actually). Haven't seen too many at "fests", since they still fly
around in lots of mil and civil aircraft.

73 de Tom/W40KW
ATP CV-880/990, C-130, P-3
>
> Subject: oddball Collins?
> Date: Mon, 16 Feb 1998 22:01:02 +0000
> From: "Lawrence R. Ware" <lrware@pipeline.com>
> To: boatanchors@sco.theporch.com
>
> Hi Gents! anyone know what kind of firebottle rig a Collins
> 618-S is? Never heard of it myself...
>
> -Larry Ware
> lrware@pipeline.com
> Orlando, Florida
>

Date: Tue, 17 Feb 98 22:20:30 PST
From: gpewitt@execpc.com
To: boatanchors@listserv.tempe.gov, boatanchors@theporch.com
Subject: Tube data needed
Message-ID: <Chameleon.980217222924.gpewitt@execpc.com>

Man what a great resource this list is. Only a few minutes after I posted my need
for 809's and 9909's
and I have a firm offer of 809's and a possible on the 9909's. I need to find out

a fair price for the 9909's.

Antique Electronics catalog just says "call". I will but you know what "call" mean\$.

Also my library contains no info on either tube. Could someone with a better selection of tube manuals than mine please give me the vital statistics of the 809 and 9909?

Also the 9903 which was suggested as a possible substitution.

Thanks much in advance. 73 Gary

Name: Gary Pewitt N9ZSV/KT
6120 W. Calumet Rd. Apt 204
Milwaukee, WI 53223
414 355 8147 Home 414 297 4307 Work
E-mail: gpewitt@execpc.com
Date: 02/17/98
Time: 22:20:30

Date: Tue, 17 Feb 1998 23:26:15 -0500
From: Allen Tucholski <allent@en.com>
To: boatanchors@theporch.com
Subject: RE: Tek 545A High Voltage problem solved!!
Message-ID: <2.2.32.19980218042615.00939b78@en.com>

Thanks to Henry Van Cleef the 545A is repaired.

I followed the advice you sent me and worked on through your list of what to check tonight until I got to the last page.
Seems like everything was OK, in all the places you suggested to look. (6AU5 toob was good too!)

Lastly, after I could not get that high voltage test point to go higher than- 700, I decided to cut the 1 meg resistor that goes to the high voltage 500pf, 10,000 volt cap, and instantly the voltage went off the scale. It turns out the 500pf cap to the CRT anode lead was leaky at high anode voltage.

With a standard ohmmeter, it was fine. I should of known, since when I shorted out the cap there was nothing,
A sign it was not holding a charge. I guess it was just loading down the output voltage.

Replaced it with a doorknob type, and we have all kind of voltage now, as a matter of fact,

I forgot to turn the hv pot down, and I believe it went to -1600 for a moment.

Thanks for steering me in the right direction. By isolating each section you eliminate what's not wrong.

I thought I had a bad H.V. transformer in this one, but it was not.

One other question? I had to remove the black high voltage paint that was on the leads in the high voltage section.

(I replaced the last hv rectifier tube also during the testing process) What can I use to insulate what I took off.

Will clear RTV work for high voltage?

The scope now has a very bright good looking crt.

Allen

Date: Tue, 17 Feb 1998 22:06:43 -0500 (EST)
From: "Roberta J. Barmore" <rbarmore@indy.net>
To: BA <boatanchors@sco.theporch.com>
Subject: In re The Age Moderne
Message-ID: <Pine.SUN.3.96.980217220227.15020C-100000@indy3>

...Will keep this short: Saturday the 14th, a line-noise burst did something unfathomable to my e-mail, and tossed 2000-odd messges into a folder on the provider's machine that I cannot open. So if ya writ me then or just prior, chances are I never saw it.

Lost a couple of msgs in re the "Llaves Telegraphicas" key, one of which was a pointer to the maker's web-pages. :(Also tons and heaps of good stuff from the gang. See what comes of modern technology? <grin> (Also of not making backups or hardcopies, I won't try to wriggle out of my own snafu).

73,
--Bobbi

KB9GKX "RJ" rbarmore@indy.net Roberta J. (Bobbi) Barmore
FISTS #3388 * ARRL * RSGB * WIA
Appreciator Of Vacuum-Tube Ham Gear and Vintage Keys

Date: Tue, 17 Feb 1998 21:56:19 -0500 (EST)
From: "Roberta J. Barmore" <rbarmore@indy.net>
To: BA <boatanchors@sco.theporch.com>
Subject: Re: Si diodes, 5U4s, and filter cap ratings
Message-ID: <Pine.SUN.3.96.980217211721.15020A-100000@indy3>

Hi!

In re SS + R replacements for tube rects, if you **really** gotta and you have a bad case of the safety bug, it is still possible to buy (or make) those nifty punched-metal boxes with an octal plug on the bottom. Nice and safe.

With that out of the way, allow me to take a moment to look at my breadboard (on **wood**) single 6L6 rig with DC & RF "hot" variable condensers (and big fat knobs on insulated shafts) on top, and cloth-covered wire running over to the (Bakelite) binding posts on the PSU, and sneer at the cotton-batting coddled & cosseted World Of Today. My rig is perfectly safe, so long as the operator **thinks!** I don't go hammin' when I'm half-asleep, I fuse the gear, tie the grounds & chassis together, and by golly, the HV stays where it's supposed to be and so do my hands. My keys are hot with the B+ when open[1]--so I make darned sure **that** side isn't tied to the frame. A person that won't take the time to think things through and work safe maybe needs to get bit.[2] (End rant).

...From a purist perspective the use of SS + R replacements is sorta contemptible; if the thing started out with a 5U4, why, you use a 5U4! But in something that runs hot and is used often, it makes sense to use the low-heat option. And yes, were I to apply such a thing (eek!) to my PSU, I'd box it up--the tube (an 80 of course; do they make other small rects?[3]) sticks up in the open, too easy to brush against. But under the hood of most sets, a big ol' wirewound will be happier out in the air. You lift the lid, you'd better think about getting bit and mind where you put your mitts, even without a filamentless rectifier!

Professionally, I work to a stricter standard--you keep the cold side cold and the hot side isolated in big transmitters, or you go find another line of work; there's too many people who run the stuff without knowing about the demons we've got imprisoned inside. (50V/300A X 14 or 8kV/10A X 2, a little dab'll do ya). But a hamshack? >Sigh< Hams're 'sposed to know what they're about--we do it for fun, not to pay the rent! (Oh, wait, I fergot--that was back when we had to learn the code. I shoulda took up tatting).

73,
--Bobbi

1. And so are yours, folks, if you're cathode-keying directly. Did you think the tube went magically non-conductive just 'cos you opened the cathode return? Apply yourself (literally!) and learn the shocking truth!
2. Problem is, they never get bit just enough to serve as a reminder; we don't have enough 67.5V "B" batteries around these days to serve as Nasty Examples, just lots and lots of leeneears runnin' a kV or so. Feh! Keep that coffee suing-hot, it's lousy lukewarm.
3. Forsooth, they don't--the 5Y3 is just an '80 with a fancy new octal base, and most of the other octal rects in common use are just riffs on the basic theme. Oh, 5U4 is kinda sorta an 83V with too many legs...but it's more of an 80.

KB9GKX "RJ" rbarmore@indy.net Roberta J. (Bobbi) Barmore
FISTS #3388 * ARRL * RSGB * WIA
Appreciator Of Vacuum-Tube Ham Gear and Vintage Keys

Date: Tue, 17 Feb 1998 18:38:20 -0800
From: "Arden Allen" <aallen@sirius.com>
To: "Old Tube Radios" <boatanchors@theporch.com>
Subject: Re: Si diodes, 5U4s, and filter cap ratings
Message-ID: <199802180245.SAA01578@calimetrics.com>

Hi Bob;

> Do you remember those "solid state replacements" they used to sell?
Plug-in
> diodes all potted up in black epoxy. I have exactly *one* of them and wish
> I had more. Someone outta make them again, there'd be a good market as
> curing epoxy potting material in the oven makes the pizza smell funny!

Nothing I like better than a nice toastie rectifier in my radio to keep things warm on a day like today! Hey, why not pot the diodes in mozzarella?

Give your loved ones Gummy Bears
Arden Allen KB6NAX aallen@sirius.com

Date: Tue, 17 Feb 1998 18:29:24 -0800
From: "Arden Allen" <aallen@sirius.com>

To: "Old Tube Radios" <boatanchors@theporch.com>,
"Sandy W5TVW" <ebjr@worldnet.att.net>
Subject: Re: Si diodes, 5U4s, and filter cap ratings
Message-ID: <199802180236.SAA01562@calimetrics.com>

Don't get your feathers all ruffled up Sandy. Of course YOU wouldn't do something stupid like that I trust but I think you make a mistake by doing what you admitted:

> I always assumed that someone who wanted to delve into
> "hollow state" electronics would not be *that* completely stupid!

Never assume when you don't know who may take your advice. There HAVE been injuries and deaths of people working on high voltage stuff and some of them were not dummies. I've seen some pretty stupid things done by "knowledgeable" people. My "favorite" (ooph!) is the hot can electrolytic with no insulation. I got knocked on my butt the first time I encountered that and I've encountered it several times again over the years. A little cautionary advice handed out for free may be very valuable to someone, you never know. 73

Give your loved ones Gummy Bears
Arden Allen KB6NAX aallen@sirius.com

Date: Tue, 17 Feb 1998 21:02:34 -0800
From: Charles Kadesch <chas@digizen.net>
To: boatanchors@theporch.com
Subject: Re: Russian Nationals
Message-ID: <34EA6B6A.583F@digizen.net>

Have a look at page 19 of the March 1998 QST. They are requesting help to restore their WWII boatanchors.

-73-

Chas W3KC

Date: Tue, 17 Feb 1998 20:20:44 CST
From: jackiv@juno.com (John M Iverson)
To: <boatanchors@sco.theporch.com>
Subject: HELP
Message-ID: <19980217.202045.3470.1.jackiv@juno.com>

I need information for a RYCOM selective voltmeter model 3135.. any

one knows what this is or can steer me to the place ??
Jack Iverson K0EWU jackiv@juno.com

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Tue, 17 Feb 1998 21:11:48 EST
From: DCrespy@aol.com
To: boatanchors@sco.theporch.com
Cc: crippel@exis.net
Subject: Fwd: [R-390] New 600/8 Ohm Audio Transformers will be available
Message-ID: <bad959ef.34ea4366@aol.com>

This is a multi-part message in MIME format.

--part0_887767908_boundary
Content-ID: <0_887767908@inet_out.mail.aol.com.1>
Content-type: text/plain; charset=US-ASCII

Following is a note from Chuck Rippel, that he posted to the R-390 and Collins lists. I thought it would be of interest to the rest of the BA crowd. Chuck said he would not mind the repost so long as I added one caution:

He has more than enough responses to get the project working, so please do not reply to him on this.

<< Earlier in the month, I wrote Fred Hammond, VE3HC a personal letter. One of the topics covered was one on behalf of those on this list. As you all know, there is a lack of an available, quality 600 ohm primary, 8 ohm secondary audio matching transformer.

Fred called me on the phone today and we covered that along with a few other topics. He has agreed to manufacture a quantity of these audio transformers. In fact, he has agreed to oversee the production of the transformer to meet his personal specifications. Seems there is an original design which worked particularly well when Hammond Mfg built parts for Collins. True to his friendship of the Vintage hobby, Fred wants to make sure we get that particular design.

The business end of this "deal" will be very simple. Each interested party will order on an individual basis directly from Hammond Mfg in New York or, as appropriate, Canada.

Fred did not communicate a price at this time although I get the feeling that it will be very reasonable. He is having his staff cost out the production and will get back to me on that. When I know price and ordering time frame, it will be posted here.

This audio matching transformer is used on R390's and many other types of Vintage equipment.

-73-

Chuck Rippel, WA4HHG >>

Also, please no need to respond to me, I really know nothing more about this interesting deal. Also I do know about the 70.7 volt line transformers as a reasonable alternative.

Harry KG5LO
Saline MI

--part0_887767908_boundary
Content-ID: <0_887767908@inet_out.mail.aol.com.2>
Content-type: message/rfc822
Content-transfer-encoding: 7bit
Content-disposition: inline

Return-Path: <owner-r-390@ns3.qth.net>
Received: from relay28.mail.aol.com (relay28.mail.aol.com [172.31.109.28]) by
air12.mail.aol.com (v38.1) with SMTP; Tue, 17 Feb 1998 17:49:36 -0500
Received: from ns3.qth.net (NS3.QTH.net [209.60.242.87])
by relay28.mail.aol.com (8.8.5/8.8.5/AOL-4.0.0)
with ESMTP id RAA18874;
Tue, 17 Feb 1998 17:49:19 -0500 (EST)
Received: (from majordom@localhost)
by ns3.qth.net (8.8.7/8.8.7) id RAA03555
for r-390-outgoing; Wed, 17 Feb 1999 17:43:04 -0500
X-Authentication-Warning: ns3.qth.net: majordom set sender to
owner-r-390@qth.net using -f
Received: from marlin.exis.net (root@marlin.exis.net [205.252.72.2])
by ns3.qth.net (8.8.7/8.8.7) with ESMTP id RAA03551
for <r-390@qth.net>; Wed, 17 Feb 1999 17:42:59 -0500
Received: from crippel.exis.net (digital-2-96.exis.net [205.252.73.96])
by marlin.exis.net (8.8.8/8.8.8) with SMTP id RAA10964;
Tue, 17 Feb 1998 17:43:08 -0500
Message-Id: <199802172243.RAA10964@marlin.exis.net>

From: "Chuck Rippel" <crippel@exis.net>
To: r-390@qth.net
Date: Tue, 17 Feb 1998 17:44:12 +0000
Subject: [R-390] New 600/8 Ohm Audio Transformers will be available
CC: collins@listserv.tempe.gov
Sender: owner-r-390@qth.net
Precedence: bulk
Reply-To: "Chuck Rippel" <crippel@exis.net>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Earlier in the month, I wrote Fred Hammond, VE3HC a personal letter. One of the topics covered was one on behalf of those on this list. As you all know, there is a lack of an available, quality 600 ohm primary, 8 ohm secondary audio matching transformer.

Fred called me on the phone today and we covered that along with a few other topics. He has agreed to manufacture a quantity of these audio transformers. In fact, he has agreed to oversee the production of the transformer to meet his personal specifications. Seems there is an original design which worked particularly well when Hammond Mfg built parts for Collins. True to his friendship of the Vintage hobby, Fred wants to make sure we get that particular design.

The business end of this "deal" will be very simple. Each interested party will order on an individual basis directly from Hammond Mfg in New York or, as appropriate, Canada.

Fred did not communicate a price at this time although I get the feeling that it will be very reasonable. He is having his staff cost out the production and will get back to me on that. When I know price and ordering time frame, it will be posted here.

Over the next few days, those interested should drop me an E-Mail. I need no more of an answer beyond how many you might want. This is simply to tell Fred approximately how many will be needed so he can plan accordingly.

This audio matching transformer is used on R390's and many other types of Vintage equipment.

-73-

Chuck Rippel, WA4HHG

R390A List Co-Administrator

Redistributions of Postings to this list are by permission only

Reply to: crippel@usa.net

To Learn More About R390A's, Visit:

<http://users.exis.net/~crippel/welcome.htm>

1968 Contract Dittmore-Friemuth R390A #38

1967 Contract EAC R390A #2808 with outboard Sherwood SE-3 Synchronous Detector

1967 Contract EAC R390A #5295

1967 Contract EAC R390A #5591

1967 Contract EAC R390A #1023

All in regular, daily use as premier Shortwave Broadcast DX Receivers

Also in Amateur Vintage (AM) Communications

Submissions r-390@qth.net

--part0_887767908_boundary--

Date: Wed, 18 Feb 1998 05:47:37 -0800

From: "Edwin G. Buttell" <edd.b@snet.net>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: WTB 7360's

Message-ID: <34EAE679.513B@snet.net>

Good Morning Tube Lovers;

I need three 7360's NOS for use in a Johnson
Viking SSB adapter that I am restoring.

After looking around the only 7360's I can
find are from AES. Are there any more ???

Thanks de Edd.B.

Storrs,Ct.

Date: Wed, 18 Feb 98 08:38:07 EST

From: w2ec@vnet.IBM.COM

To: boatanchors@sco.theporch.com

Subject: RE: Hot Xformers

Message-ID: <199802181358.HAA22590@sco.theporch.com>

> What are you other Valiant owners doing?

I turn my Valiant on just before I want to use it. It stabilizes within 15 minutes. I shut it off at the end of the evening.

I bought this Valiant new, it is still stock including all the original tubes, even the 866's. Seems to have weathered the last 37 years using this technique.

There is a picture of my Valiant II (along with a picture of my BA station position I used during the recent Classic Exchange, Invader 2000 etc) on my home page: http://www.geocities.com/~ac_cars/W2EC.html

When you get to this page, just click on Classic Exchange 98 Position to get to the latest pictures.

73, Ray W2EC

End of BOATANCHORS Digest 1928

>From ???@??? Thu Feb 19 03:26:22 1998
Message-Id: <199802190319.VAA04475@sco.theporch.com>
Date: Wed, 18 Feb 1998 21:19:17 CST
Subject: BOATANCHORS digest 1929

BOATANCHORS Digest 1929

Topics covered in this issue include:

- 1) One last hot xfrmr note
by "Paul Bernhard Sr." <w2tu@email.msn.com>
- 2) Re: Give away for postage : For your library
by "Ragnar Otterstad" <otterstad@inet.uni2.dk>
- 3) FS Hammarlund HQ-129X
by JONWEINER@aol.com
- 4) Re: Oddball Collins
by "Arden Allen" <aallen@sirius.com>
- 5) Re: data for 809
by Bill Jarvis <B.H.Jarvis@hw.ac.uk>
- 6) Re: One last hot xfrmr note
by jackiv@juno.com (John M Iverson)
- 7) Re: 80/5Y3.
by Ken Gordon <keng@uidaho.edu>
- 8) Re: In re The Age Moderne
by Ken Gordon <keng@uidaho.edu>
- 9) Special Forces set FS

- by BEN NOCK <G4BXD@compuserve.com>
- 10) Re: Si diodes, 5U4s, and filter cap ratings
by Richard Loken <richardlo@devax.admin.athabascau.ca>
- 11) FS - 6146's & other tubes
by JONWEINER@aol.com
- 12) Re: Feb '98 ER Article on 12BW4's
by Dexter Francis <cwest@xmission.com>
- 13) Re: Collins 51J-4 trouble and black beauty caps
by "sierra.victor" <sierra.victor@swipnet.se>
- 14) Re: Good news/Bad news/AX9909
by "David L. Thompson" <thompson@mindspring.com>
- 15) Greenkeys night
by David Ross <ross@hypertools.com>
- 16) Re: Good news/Bad news/AX9909
by "Grant Youngman" <nq5t@gte.net>
- 17) collins 32T? Whazzit?
by john <johnmb@mindspring.com>
- 18) Re: Hot xformers Causes
by "." <rau@wco.com>
- 19) The tube fairy left me an HP 524C.....
by Tom Norris <badger@telalink.net>
- 20) Antique Radio
by w5sum@ms1.nwla.com
- 21) Re: Fwd: [R-390] New 600/8 Ohm Audio Transformers will be available
by polepeeg@aaa4rm.radio.org (BA x-actions hr)
- 22) Re: New goodies FS on the Web site...
by Dexter Francis <cwest@xmission.com>
- 23) Re: Good news/Bad news/AX9909
by "David L. Thompson" <thompson@mindspring.com>
- 24) WTB W.S. 19 connectors
by jmccarty@lucent.com (John J Mccarty)
- 25) Fair warning Monster Tube Sale
by "." <rau@wco.com>
- 26) Re: Greenkeys night
by Steve Rohrer <srohrer@sprynet.com>
- 27) A keymaker!
by "Roberta J. Barmore" <rbarmore@indy.net>
- 28) Looking for Heath paint..
by stever@cybercomm.net (Stephan Rashkin)
- 29) Re: WTB 7360's
by John Kolb <jlkolb@cts.com>
- 30) FS/FT GE Selsyn
by Jim Coe W5JI <jcoe@brightok.net>

Date: Wed, 18 Feb 1998 09:30:01 -0500
From: "Paul Bernhard Sr." <w2tu@email.msn.com>

To: <boatanchors@theporch.com>
Subject: One last hot xfrmr note
Message-ID: <0cb764130141228UPIMSSMTPUSR03@email.msn.com>

I suppose I'm pushing the envelope on xfrmr postings but here goes. I'm not an equipment person but in the area of power transformers (real world kind) the NEMA ratings are interesting. NEMA (National Elect. Man. Assoc.) sets the base or ambient at 40' Celsius or 104'F. Four classes of insulation determine the transformers rating above that.

Class A - 55'Celsius rise (close to boiling point of water)

Class B - 80' Celsius rise

Class F 115' Celsius rise

Class H - 150' Celsius rise

These are winding temps and all are above the original 40' celsius starting point so as you can see transformers can get very hot under normal load conditions. I have had to post signs and isolate some transformer installations. People feel the heat and get burned and are ready to call the fire department! I realize that this type of temperature would not be conducive to long lasting electronic components. Now I'll sit back and wait for my reprimand on non-BA posting.

73's all

Paul Bernhard Sr.
w2tu@msn.com

Date: Wed, 18 Feb 1998 15:28:09 +0100
From: "Ragnar Otterstad" <otterstad@inet.uni2.dk>
To: "Old Tube Radios" <boatanchors@theporch.com>
Subject: Re: Give away for postage : For your library
Message-ID: <199802181424.PAA05149@inet.uni2.dk>

> Siemens Electronic Components Bulletin - a pile with issues from 1968
> -1970
>

Rohde & Schwarz Product Bulletins (5) from 1973

This one is now spoken for. The others still available

> 15 Siemens Components Data books from 1967 - 1973 . (as a package)
>
>
>
> 73 Rag OZ8R0
>
>
> in Copenhagen

Date: Wed, 18 Feb 1998 10:15:33 EST
From: JONWEINER@aol.com
To: boatanchors@theporch.com
Subject: FS Hammarlund HQ-129X
Message-ID: <8d87304a.34eafb17@aol.com>

I have for sale a very good conditon Hammarlund HQ-129X. Just came out of long term storage. Complete with copy of manual. It is in very good condition, except the original knobs have been replaced with a matched set of knobs that are fluted round, instead of the original "pointer" type. Price \$75., picked up at Greenville, SC, since I don't want to ship.

Jon, K1VVC

Date: Wed, 18 Feb 1998 07:19:25 -0800
From: "Arden Allen" <aallen@sirius.com>
To: "Old Tube Radios" <boatanchors@theporch.com>, <fclarke@erols.com>
Subject: Re: Oddball Collins
Message-ID: <199802181518.HAA04255@mail1.sirius.com>

Regarding the 618S:

> It was the forerunner to the 618T (ARC-94, ARC-102)
> series of HF SSB Aero transceivers.

That rings a bell! Cognitive dissonance cured. Thanks.

Give your loved ones Gummy Bears.
Arden Allen KB6NAX Vallejo, CA aallen@sirius.com

Date: Wed, 18 Feb 1998 15:01:42 +2400
From: Bill Jarvis <B.H.Jarvis@hw.ac.uk>
To: gpewitt <gpewitt@execpc.com>
Cc: boatanchors <boatanchors@theporch.com>
Subject: Re: data for 809
Message-ID: <199802181501.PAA03571@punt1.hw.ac.uk>

Triode, 6v3, 2a5. Va max 1000, I_{max} 100 mA. Mu 50. Max DC control grid current, 35 mA. Plate diss, 30 W. C_{gf} 5.7 p, C_{pf} 0.9 pF, C_{gp} 6.7 pF.

In class C teleg: Va 1000, V_g -75, I_a 100, I_g 25 mA, Win 3.8, Wout 75.

Class C AM: Va 750, V_g -60, I_a 100, I_g 32, Pin 4.3, Pout 55.

Class B audio: Va 1000, V_g -10, I_a 200, Pin 3.4, Pout 145 W.

My book stops at type 8025 !

Bill
GM8APX, qthr=No 6, EH4 6JY==No Rectangulars=Cave Felem==Ikke Hawkering

Capax imperii - nisi imperasset

Net-Tamer V 1.10 - Registered

Date: Wed, 18 Feb 1998 11:11:00 CST
From: jackiv@juno.com (John M Iverson)
To: w2tu@email.msn.com
Cc: boatanchors@theporch.com
Subject: Re: One last hot xfrmr note
Message-ID: <19980218.111418.3470.0.jackiv@juno.com>

this is the kind of info that we need. if you can hold your hand on it for 5 seconds, it's not too hot
Jack Iverson K0EWU jackiv@juno.com

On Wed, 18 Feb 1998 09:30:01 -0500 "Paul Bernhard Sr."
<w2tu@email.msn.com> writes:
> I suppose I'm pushing the envelope on xfrmr postings but here
> goes. I'm
> not an equipment person but in the area of power transformers (real
> world

>kind) the NEMA ratings are interesting. NEMA (National Elect. Man.
>Assoc.)
>sets the base or ambient at 40' Celsius or 104'F. Four classes of
>insulation
>determine the transformers rating above that.
>Class A - 55'Celsius rise (close to boiling point of water)
>Class B - 80' Celsius rise
>Class F 115' Celsius rise
>Class H - 150' Celsius rise
>
> These are winding temps and all are above the original 40' celsius
>starting point so as you can see transformers can get very hot under
>normal
>load conditions. I have had to post signs and isolate some transformer
>installations. People feel the heat and get burned and are ready to
>call the
>fire department! I realize that this type of temperature would not be
>conducive to long lasting electronic components. Now I'll sit back and
>wait
>for my reprimand on non-BA posting.
>
>73's all
>
>Paul Bernhard Sr.
>w2tu@msn.com
>
>
>
>
>

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Wed, 18 Feb 1998 09:49:02 -0800 (PST)
From: Ken Gordon <keng@uidaho.edu>
To: "Roberta J. Barmore" <rbarmore@indy.net>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: 80/5Y3.
Message-ID: <Pine.BSF.3.95.980218094502.8983A-100000@piobaire.mines.uidaho.edu>

Personally, I always liked the 83 (no V) best. Mercury vapor. Acts like a

regulator. Doesn't get particularly hot (when run within its ratings).
Purty color. No hash to speak of, but easily filtered if it does make
some. Too bad they never made an octal version of one.

Now, I realize it SEEMS like I am contradicting my self vis-a-vis
866s/3B28s, but I am not. Still can't stand an 866 when compared with a
3B28. 3B28s are beautimous tchubes

Ken W7EKB

Date: Wed, 18 Feb 1998 09:50:30 -0800 (PST)
From: Ken Gordon <keng@uidaho.edu>
To: "Roberta J. Barmore" <rbarmore@INDY.NET>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: In re The Age Moderne
Message-ID: <Pine.BSF.3.95.980218094933.8983B-1000000@piobaire.mines.uidaho.edu>

> ...Will keep this short: Saturday the 14th, a line-noise burst did
> something unfathomable to my e-mail, and tossed 2000-odd messges into a
> folder on the provider's machine that I cannot open.

You might see it the SYSAD can get into it via PICO or VI. Sometimes that
works. 2K messages can be difficult to deal with though.

Ken

Date: Wed, 18 Feb 1998 13:06:00 -0500
From: BEN NOCK <G4BXD@compuserve.com>
To: Multiple recipients of l <boatanchors@sco.theporch.com>
Subject: Special Forces set FS
Message-ID: <199802181306_MC2-33C9-5EE7@compuserve.com>

WS No 128 for sale.

2 to 8 Mhz, tx cw only, 1 watt, rx has bfo, needs
1.5 and about 150v. Comes in two units, tx and rx, =

contains lead from tx to rx, and lead to external supply.
tx is xtal controlled, receiver fully tunable.

120.00 Pound sterling plus postage.

Ben G4BXD.

Date: Wed, 18 Feb 1998 11:33:56 -0700 (MST)
From: Richard Loken <richardlo@devax.admin.athabascau.ca>
To: "Roberta J. Barmore" <rbarmore@indy.net>
Cc: Old Tube Radios <boatanchors@theporch.com>,
~richardlo@devax.admin.athabascau.ca
Subject: Re: Si diodes, 5U4s, and filter cap ratings
Message-ID:
<Pine.PMDF.3.95.980218112140.541198448B-1000000@devax.admin.athabascau.ca>

On Tue, 17 Feb 1998, Roberta J. Barmore wrote:

> Professionally, I work to a stricter standard--you keep the cold side
> cold and the hot side isolated in big transmitters, or you go find another
> line of work; there's too many people who run the stuff without knowing
> about the demons we've got imprisoned inside. (50V/300A X 14 or 8kV/10A X

Bobbi you are being far too kind today. You know damn well that people who neglect to keep the hot side isolated generally are in no condition to resign from their job. The only thing that protects the idiots from themselves is that the builders have "dead man's bars" across the doors, interlock switches, barriers painted bright red, and cover plates with stickers reading VOLTAGES ARE LETHAL.

Being a coward kept me from a lot of harm but I still managed to have exciting moments because I found the AC line in unexpected places (like on 28V indicator lamps). No matter how careful you are you are in peril in there and must never forget it.

I had a boss once who tried to use a broom handle to reset the circuit breaker on one of the caged in pole pigs behind the station, he told me that as he reached up the broom handle he saw an electric blue hand reach out for it and changed his mind!

Risk takers should stick to snow boarding.

Richard Loken VE6BSV, Systems Programmer - VMS
Athabasca University
Athabasca, Alberta Canada
** richardlo@admin.athabascau.ca **

Date: Wed, 18 Feb 1998 13:44:05 EST
From: JONWEINER@aol.com
To: boatanchors@theporch.com
Subject: FS - 6146's & other tubes
Message-ID: <501b9bc7.34eb2bf7@aol.com>

I have a few extra 6146's for sale (not "A's", "B's". or "W's"). I think all are new, but the packing disintegrated. I've tested each on my TV-7D, and each test atleast 80/35. Price \$25. for all three, postpaid.

I've also got a bag of Western Electric 407A's, 408A's, and 412A's, about 20 tubes total. Untested. \$25. for all postpaid.

Two new RCA 833A's. \$60. each, plus postage, or \$115. for both, postpaid.

Thanks.

Jon, K1VVC

Date: Wed, 18 Feb 1998 12:27:37 -0700
From: Dexter Francis <cwest@xmission.com>
To: boatanchors@theporch.com
Subject: Re: Feb '98 ER Article on 12BW4's
Message-ID: <34EB3623.3143@xmission.com>

Greetings all -

I just wanted to correct a typographical error in the article on using 12BW4's in the R-390 and R-390A.

At the end of the first paragraph it should read:

"The 12BW4's cathode connection is on pin 9, the 26Z5W's cathodes are on pins 3 & 8. The 12BW4's plates are on pins 1 & 7, the 26Z5W's plates are on pins 1 & 6."

The accompanying illustrations of the tube base connections are correct.

(It's always better to have someone else proof read!)

-df

Need to Buy or Sell Tubes, Parts or BA Gear?
Visit our Web site at <http://www.xmission.com/~cwest/>
e-mail to: tubes@usa.net -or- cwest@xmission.com

P.O. Box 22443, Salt Lake City, Utah 84122

Date: Wed, 18 Feb 1998 20:30:55 +0100
From: "sierra.victor" <sierra.victor@swipnet.se>
To: "Old Tube Radios" <boatanchors@theporch.com>
Subject: Re: Collins 51J-4 trouble and black beauty caps
Message-ID: <01bd3ca3\$bb2d83e0\$886cf482@sekrasw104>

Det h r  r ett multipart-meddelande i MIME-format.

-----=_NextPart_000_0048_01BD3CAC.1CF1EBE0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Thank you all replying to my question about 51J-4 trouble.

Ed Tanton got me curious about the "black beauty" capacitors.
What is the history behind them? Are they notorious bad things?
I have found only one black disc in my 51J-4. It is in RF-stage 6AK5
as screen bypass. I will exchange it soon. (Puuh very tight).
Trouble coming and going away so perhaps it will help.

73,=20
Sven, SM3SV

-----=_NextPart_000_0048_01BD3CAC.1CF1EBE0
Content-Type: text/html;
 charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

<!DOCTYPE HTML PUBLIC "-//W3C//DTD W3 HTML//EN">
<HTML>
<HEAD>

<META content=3Dtext/html; charset=3Diso-8859-1 =
http-equiv=3DContent-Type>
<META content=3D'"MSHTML 4.71.1712.3"' name=3DGENERATOR>
</HEAD>
<BODY bgColor=3D#ffffff>
<DIV>Thank you all replying =
to my=20
question about 51J-4 trouble.</DIV>
<DIV> </DIV>
<DIV>Ed Tanton got me curious about the =
"black=20

beauty" capacitors.</DIV>
<DIV>What is the history behind them? Are =
they notorious=20
bad things?</DIV>
<DIV>I have found only one black disc in my =
51J-4. It is=20
in RF-stage 6AK5</DIV>
<DIV>as screen bypass. I will exchange it =
soon. (Puuh=20
very tight).</DIV>
<DIV>Trouble coming and going away so =
perhaps it will=20
help.</DIV>
<DIV> </DIV>
<DIV>73, </DIV>
<DIV>Sven, SM3SV</DIV></BODY></HTML>

-----=_NextPart_000_0048_01BD3CAC.1CF1EBE0--

Date: Wed, 18 Feb 1998 14:32:58 -0500 (EST)
From: "David L. Thompson" <thompson@mindspring.com>
To: gpewitt@execpc.com
Cc: boatanchors@theporch.com
Subject: Re: Good news/Bad news/AX9909
Message-ID: <1.5.4.16.19980218023353.3d0f485e@pop.mindspring.com>

At 06:44 PM 2/17/98 PST, you wrote:
>Gang, good news: I will shortly be receiving a Globe Champion transmitter
supposed to be in pretty nice shape.
>Bad news: apparently both finals and both modulator tubes
>are kaput. Anyone got any 9909's (AX9909's?) or any 809's? Checked Fair
Radio catalog, no show.

I remember a discussion some time ago on both the AX9903 and AX9909. The
AX9903 is a 5894A. The AX9909 has no direct equivalent. It only has Fig 5
listed in the 1962 ARRL Handbook. This is a pentode. The 809 is listed as
figure 3G and is a triode.

Has anyone found a source for AX9909's or a close equivalent??

Dave K4JRB

Date: Wed, 18 Feb 1998 11:47:52 -0800
From: David Ross <ross@hypertools.com>
To: boatanchors@theporch.com
Subject: Greenkeys night
Message-ID: <3.0.5.32.19980218114752.007aebd0@mail.willapabay.org>

BAfolks -

Is anybody planning to crank up their old Kleinschmidt page printers this Friday night? How 'bout that fine Teletype Model 19 out in the garage, or maybe even that tactical MITE KSR lurking under the bench?

Yes, the annual night of mechanical madness and 850~ shift silliness has rolled around again - the anniversary of RTTY being permitted on the ham bands. Now's your chance to see just how well that CV-116 & R-390 combination works, or really check out the range adjustment on the Model 28.

So dig out the tuning fork, spin up the Model 15 (don't forget the drip pan...), and get cranked up at 850~ shift on 3585 this Friday evening. (Don't worry, you'll be forgiven if you show up using a computer.)

GREENKEYS HINT - WD-40 works very well to rejuvenate dried-out TTY print ribbons. Spray a bunch on the printer ribbon roll this evening and it'll soak through by Friday night and provide perfectly readable copy.

73
Dave Ross KA6EPI ross@hypertools.com

Date: Wed, 18 Feb 1998 13:49:47 -0600
From: "Grant Youngman" <nq5t@gte.net>
To: "David L. Thompson" <thompson@mindspring.com>, boatanchors@theporch.com
Subject: Re: Good news/Bad news/AX9909
Message-ID: <199802181950.NAA07999@smtp2.mailsrvcs.net>

> Has anyone found a source for AX9909's or a close equivalent??
>

The 6083 is a direct equivalent. In fact, if you buy an AX9909, you generally end up with a 6083. Someone had some for sale on rec.radio.swamp a while back for maybe \$80. I paid (gasp!!!) \$120 EACH for a pair of them a couple of years ago to get my Globe Champion 300 running. Rumor was that a LARGE number of these hit the US market recently at about \$25.00, but of course "market pricing"

seems to prevail :-(

A fairly recent issue of ER (don't have the link to the index here in front of me) described a mod to use another tube (AX-something) that is inexpensive and fairly available. It requires surgery to the transmitter and is not a direct plug-in replacement.

Grant

Grant Youngman -- NQ5T

nq5t@gte.net

HTTP://home1.gte.net/nq5t

Double Oak, TX (near Dallas)

Date: Wed, 18 Feb 1998 19:31:36 -0500
From: john <johnmb@mindspring.com>
To: boatanchors@theporch.com
Subject: collins 32T? Whazzit?
Message-ID: <199802190032.TAA07752@camel8.mindspring.com>

Anyone know what a Collins 32T is?

Best

/John

Date: Wed, 18 Feb 1998 18:06:57 -0800
From: "." <rau@wco.com>
To: "Ralph Parker" <rparker@istar.ca>
Cc: "boatanchors" <boatanchors@theporch.com>
Subject: Re: Hot xformers Causes
Message-ID: <199802190210.SAA27497@shell.wco.com>

hot transformers mean leaky filter caps, internal shorts, either in the xfmr or choke, or hysteresis currents due to bad varnish between laminations.. is that iron rusty ?

did somebody increase the cap size in a capacitor input filter ? this is a big no - no which cause xfmr overheating and failure...are the tubes in the radio the right ones ? not some goofball ' same as" tubes ?

w6wuh

Date: Wed, 18 Feb 1998 14:57:56 -0600
From: Tom Norris <badger@telalink.net>
To: boatanchors@theporch.com
Subject: The tube fairy left me an HP 524C.....
Message-ID: <3.0.32.19980218145324.00684140@mail1.telalink.net>

Hi all. Found an HP 524C under my pillow this weekend and have just now had the time to plug it in and check it out. Seems to work pretty well. Thing is darned BIG, but has a nice nixie display, so I dont mind too much.....

Question - A year or so ago I remember a discussion on a solid state prescaler plugin for this unit. anyone else know what I am talking about?

Have a 525A plugin right now.

Any hints etc from other who have had or still have one of these behemoths?????

73

Tom

badger@telalink.net

Date: Wed, 18 Feb 1998 16:08:21 +0000
From: w5sum@ms1.nwla.com
To: boatanchors@theporch.com
Subject: Antique Radio
Message-ID: <199802182206.QAA28662@ms1.nwla.com>

howdy men
can anyone tell me how to contact antique radio so I can subscribe to this publication?

I understand it is an excellent boatanchor source!
Ronnie
W5SUM - Ronnie Hull
PO Box 8941
Shreveport, La 71148

Date: Wed, 18 Feb 1998 17:25:22 -0500
From: polepeeg@aa4rm.radio.org (BA x-actions hr)
To: bob@atl.org
Subject: Re: Fwd: [R-390] New 600/8 Ohm Audio Transformers will be available
Message-ID: <199802182225.RAA16932@aa4rm>

Well Duckworthy, there goes our plans of saturating the huge R390 market
with WECO Princess Fone "wall warts" as high quality 8ohm output matchers.

Sic transit gloria

'rm

Date: Wed, 18 Feb 1998 15:32:40 -0700
From: Dexter Francis <cwest@xmission.com>
To: boatanchors@theporch.com
Subject: Re: New goodies FS on the Web site...
Message-ID: <34EB6187.9B8@xmission.com>

Greetings all -

I just posted a few new BA items on the web site:

Several Simpson meters
Zenith G500 TransOceanic
National RAO-7/NC-100
Hickcock 532 Tube Tester

Y'all be sure to drop by now...

(Email inquiries are also acceptable!)

-df

Need to Buy or Sell Tubes, Parts or BA Gear?
Visit our Web site at <http://www.xmission.com/~cwest/>
e-mail to: tubes@usa.net -or- cwest@xmission.com
P.O. Box 22443, Salt Lake City, Utah 84122

Date: Wed, 18 Feb 1998 17:46:48 -0500 (EST)
From: "David L. Thompson" <thompson@mindspring.com>
To: boatanchors@theporch.com
Subject: Re: Good news/Bad news/AX9909

Message-ID: <1.5.4.16.19980218054740.382763ac@pop.mindspring.com>

Grant NQ5T says...

>The 6083 is a direct equivalent. In fact, if you buy an AX9909, you
>generally end up with a 6083. Someone had some for sale on
>rec.radio.swamp a while back for maybe \$80. I paid (gasp!!!) \$120
>EACH for a pair of them a couple of years ago to get my Globe
>Champion 300 running. Rumor was that a LARGE number of these hit the
>US market recently at about \$25.00, but of course "market pricing"
>seems to prevail :-(

Grant is right. I found my 1957 handbook and there is a Amperex ad and it shows the AX9909 as AX9909/8063. At least this gives another number. I wonder if one of the tube houses in Northern NJ have either. United Page etal. Not near my files but could be another source (AES is expensive!).

If a large qty hit the market then maybe Fair Radio may know about it...

Dave K4JRB

Date: Wed, 18 Feb 1998 16:47:22 -0600
From: jmccarty@lucent.com (John J McCarty)
To: boatanchors@theporch.com
Subject: WTB W.S. 19 connectors
Message-ID: <199802182247.QAA15852@nwsgpa.ih.lucent.com>

Greetings;

Does anyone have any W.S.19 connectors (12 PT or dog-bone)
that they would not mind parting with????

Tnx + 73

John McCarty
n9hrt
jmccarty@lucent.com

Date: Wed, 18 Feb 1998 18:19:11 -0800
From: "." <rau@wco.com>
To: "boatanchors" <boatanchors@theporch.com>
Subject: Fair warning Monster Tube Sale
Message-ID: <199802190222.SAA01313@shell.wco.com>

The bankruptcy attorney wants \$ 2500 cash...

I will be posting a large list of new receiving audio and transmitting tubes in a few days
If jack says it is ok...prices will be between AES buy prices and AES sell prices depending on the item and qty.

There will be a large qty of hard to find mechanical military origin parts and hardware too.

First consideration will be given to folks who will pick up stuff .

Please no requests for 3-550z's or sweep tubes i aint got em...803's i got.

but there will be plenty of ww2 era stuff
7-9 pin minatures
and some 4-5-7 pin stuff

I will post one more warning 24 hours before hand.. any ideas about how to do this fairly would be appreciated !

Mr. Ware ?

thanks w6wuh

larry w6wuh

Date: Wed, 18 Feb 1998 19:13:34 -0500
From: Steve Rohrer <srohrer@sprynet.com>
To: ross@hypertools.com
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Greenkeys night
Message-ID: <34EB792E.85BF49F@sprynet.com>

I'll be there with a Model 28, triple-headed TD, and Collins S-line.
Perhaps I'll dig out some other stuff to put in the loop...

73 - Steve KA4RSZ

> BAfolks -
>
> Is anybody planning to crank up their old Kleinschmidt page printers
> this
> Friday night? How 'bout that fine Teletype Model 19 out in the
> garage, or
> maybe even that tactical MITE KSR lurking under the bench?
>

Date: Wed, 18 Feb 1998 21:30:21 -0500 (EST)
From: "Roberta J. Barmore" <rbarmore@indy.net>
To: BA <boatanchors@sco.ThePorch.com>
Subject: A keymaker!
Message-ID: <Pine.SUN.3.96.980218211207.1035A-1000000@indy2>

Hi!

I went to look at the Llaves Telegrafica Artesanas webpages, and guess what? They make a bug! It's a nice-looking critter.

He's got an English-language description of how to set it (and his other keys) up. It is an impressive effort; there's a *lot* of specialized uses of vocabulary in *everyone's* language when talking about keys that can't be found in a translating dictionary. But he made a valiant effort and the result is understandable with a little study; you have to admire anybody who would go to that much trouble! (I'm really impressed, it's a feat I'd be afraid to try).

And it's sure nice to see the venerable bug (and the European-pattern bar straight key) still going strong from another source--I'd figured Vibroplex was the very last of the breed.

By my count, there's around a half-dozen "large" keymakers left who turn out usable hardware and maybe about that many small shops that build on order, plus a couple-three making "throwaway" toy keys for practice & submini QRP. Not a whole lot for an entire planet--but Vail & Martin's gadgets aren't gone yet!

73,
--Bobbi

KB9GKX "RJ" rbarmore@indy.net Roberta J. (Bobbi) Barmore
FISTS #3388 * ARRL * RSGB * WIA
Appreciator Of Vacuum-Tube Ham Gear and Vintage Keys

Date: Wed, 18 Feb 1998 21:49:24 -0500
From: stever@cybercomm.net (Stephan Rashkin)
To: boatanchors@theporch.com
Subject: Looking for Heath paint..
Message-ID: <199802190249.VAA06012@raven.cybercomm.net>

Friend of mine is looking for a small supply of Heath
green touch up paint to match the front panel of his
SB-221 linear amp..Anyone know of a source short
of computer matching at paint store?

Thanks,
Steve, WA2NHZ

Steve Rashkin, WA2NHZ
Howell, New Jersey 07731

E-mail: stever@cybercomm.net

Date: Wed, 18 Feb 1998 19:00:32 -0800 (PST)
From: John Kolb <jlkolb@cts.com>
To: "Edwin G. Buttell" <edd.b@snet.net>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: WTB 7360's
Message-ID: <Pine.SCO.3.91.980218185648.27761A-100000@sd.cts.com>

On Wed, 18 Feb 1998, Edwin G. Buttell wrote:

> I need three 7360's NOS for use in a Johnson

> Viking SSB adapter that I am restoring.
> After looking around the only 7360's I can
> find are from AES. Are there any more ???
>

There are many possible replacements for the 7360 if you are willing to rewire the socket or build adapters between the socket and tube. With the price of new 7360's it's worth experimenting.

Following is a msg I had on BA last year.

Discussions on the boatanchors mail list last Aug indicated that the 6JH8 and the 6AR8 might be substitutes for the 7360. Jack Hill, the listowner, reported that he had substituted the 6JH8 for the 7360 in a HT-32 and it worked even better.

I have a 51J-3, which I added a 7360 product detector to many, many years ago, replacing the 12AX7 used for AM detection and IF output isolation. I don't have the schematic of the change any more, and it's too crowded to trace out, but it doesn't match any of the 7360 articles I currently have. I recently made a plug in adapter to plug the 6JH8 tube into the 7360 socket, since the tubes have a different pin-out. In my circuit the 6JH8 works as well as the 7360, without changing any component values. Pin 5 of the filament pair must be grounded, since that pin also contains the internal connection to Grid 2 and an internal shield. If you ground pin 4 instead, a loud 60 Hz hum will result.

There are a large number of other possible replacements. In the Aug 59 CQ magazine, an article by my old boss, Lester Earnshaw, "A New Product Detector" details his experiences with the 6AR8 and 6BU8 as mixers, product detectors and balanced modulators.

The 6AR8 was a beam deflection tube like the 7360 and 6JH8, but the 6BU8 is called a twin pentode, and has a common cathode, G1 and G2, but separate G3 and plates.

Looking through the RCA and Sylvania tube manuals, I found a number of other possible replacements for the \$15 7360. These seem to have all been widely used in TV's as color demodulators. Check those stocks of old TV tubes.

TYPE	DESCRIPTION	BASE	OTHERS
6GS8	twin pentode	9FG	3GS8, 3BU8, 4GS8
6LE8	twin pentode	9QZ	8LE8, 10LE8, 15LE8
6ME8	beam deflection	9RU	

6MK8 twin pentode 9FG 4MK8
7360 beam deflection 9KS
6BU8 twin pentode 9FG 3BU8, 3GS8, 4BU8,
4GS8
6AR8 beam deflection 9DP

Date: Wed, 18 Feb 1998 21:14:32 -0600 (CST)
From: Jim Coe W5JI <jcoeb@brightok.net>
To: baswaplist@foothill.net
Cc: boatanchors@sco.theporch.com
Subject: FS/FT GE Selsyn
Message-ID: <199802190314.VAA26135@cowboy.brightok.net>

Well, I've hung onto this too long trying to find another.
Shack floor starting to droop, so let's see if we can find
it a home.....

GE Selsyn Diff. Generator Model No. 2J5S1, 105-105 v 60 cps.
Seems to be in good shape, but not really able to test by
itself.....guarantee not DOA

Weights about 4 lbs and will cost about \$5.00 to ship UPS
Surface CONUS. Will sell for \$10.00 plus shipping...or...
trade.

What am I looking for? Well.....

a pair of 6HF5 finals for my Swan 350
a 1942 ARRL Handbook
a manual (or copy) for a Heath IM-5218 VTVM
a manual (or copy) for a Heath V5 VTVM
a 100-watt dry 50-ohm dummy load
who knows what else I might like?.....

Any takers?

73's.....Jim

Jim Coe W5JI Hollowstators should never tell their
Oak Crest(Antenna)Farm paramours that the glow in their
Davis, OK, USA eyes reminds them of a favorite radio!!

End of BOATANCHORS Digest 1929
